

Amendments to the Claims:

1. - 12. (Previously Cancelled).

13. Cancel.

14. (Currently Amended) The method for regulating protein synthesis according to Claim 13 21, ~~characterized in that the code which allows for the stimulation of the biosynthesis, of said protein according to Claim 1A(a) further comprising determining the frequency of said musical notes according to the following~~ code is:

Gly = low A; Ala = C; Ser = E; Pro, Val, Thr, Cys = F; Leu, Ile, Asn, Asp = G;
Gln, Lys, Glu, Met = A; His = B flat; Phe, SeC = B; Arg, Tyr = sharp C; Trp = sharp D

where the notes are tuned following the tempered scale, with low A at 220Hz.

15. (Currently Amended) The method for regulating protein synthesis according to Claim 13 21, ~~characterized in that the code for inhibition of the biosynthesis of said protein according to Claim 1A(a), wherein said code is:~~

Trp = C; Arg, Tyr = D; Phe, SeC = E flat; His = E; Gln, Lys, Glu, Met = F; Leu, Ile, Asn, Asp = G; Pro, Val, Thr, Cys = A; Ser = B flat; Ala = sharp D; Gly = sharp F

as deduced ~~from the code of Claim 14~~ by taking the notes of the chromatic tempered scale which are symmetrical to those of the code of Claim 14 with respect to the central G.

16. Cancel.

17. (Currently Amended) The method ~~of~~ for regulating protein synthesis according to Claim 22, wherein said central value v is the frequency of lemon yellow, wherefrom said code reads

Gly = dark red; Ala = bright red; Ser = orange; Pro, Val Thr, Cys = ochre; Leu, Ile, Asn, Asp = lemon yellow; Gln, Glu, Lys, Met = green; His = emerald; Phe = blue; Arg, Tyr = indigo; Trp = purple.

18. Cancel.

19. (New) A method of regulating protein synthesis *in situ* comprising:

- (a) determining the amino acid sequence of a protein;
- (b) determining the sequence of musical notes corresponding to said amino acid

sequence according to the following steps;

- (i) determining the frequency of each amino acid, equal to its mass multiplied by the square of the speed of light in a vacuum and divided by Planck's constant,
- (ii) calculating the frequency of the musical notes from the frequency of said amino acid,
- (iii) transposing the frequencies of said musical notes into audible frequencies,
- (c) determining the musical periods of said sequence of musical notes by identifying similar series of said musical notes; and
- (d) playing said sequence of musical notes *in situ* to stimulate or inhibit said protein synthesis.

20. (New) The method for regulating protein synthesis according to Claim 19 further comprising: determining the lengths of said musical notes by rectifying individually said musical periods by adjusting the phrasing to the measure of said sequence of musical notes.

21. (New) The method for regulating protein synthesis according to Claim 19 further comprising determining the frequency of said musical note according to a code comprising:

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(a) obtaining the frequency of each amino acid, proportional to its mass by minimizing the global harmonic distance between the frequencies of each pair of amino acids in said protein;

(b) transposing the frequencies of said music notes into the audible frequencies, said code being relative to the synthesis stimulation of said protein; and

(c) obtaining said code relative to its inhibition by symmetrization of the logarithms of heretofore obtained frequencies with respect to their central value considered as the origin.

22. (New) The method for regulating protein synthesis according to Claim 19, wherein each sound transposition of quantum vibrations associated with the synthesis of a given protein is completed by the color transposition of quantum vibrations associated to the mature protein after it is spatially folded back over itself, according to a code specific to the stabilization of that protein or to the inhibition of its synthesis obtained through the sequence of musical notes by application of the formula $\nu = \nu_0 \cdot \text{Arch} (e^{f/f_0})^{\text{Logch } 1}$, where f, f_0 are the musical frequencies and ν, ν_0 the frequencies of colors, with the index 0 showing the central value.

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Amendments to the Drawings:

The attached 3 sheets of drawings include changes to the margins of Figures 1-

4. These 3 sheets replace the original 3 sheets that included Figures 1-4.

Attachment: Replacement sheets